

SAFETY DATA SHEET

BWT-27

1. Product and Manufacturer Identification

Product Name: BWT-27

Manufacturer: Apollo Technologies, Inc.
31441 Santa Margarita Parkway, Suite A-219
Rancho Santa Margarita, Ca. 92688

For more information call: (949) 888-0573

In case of emergency call:
(24 hours per day, 7 days per week)
Chem-Tel (800) 255-3924
Contract # MIS0000451

2. Hazards Identification



Signal word: Danger!

Hazard statement(s)

H302 Harmful if swallowed

H319 Causes serious eye irritation

H315 Causes skin irritation

H412 Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment

Precautionary statement(s)

P102 Keep out of the reach of children

P234 Keep in original container

P305+P351+P338 IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P301+330+331+315 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Get immediate medical attention.

ROUTES OF EXPOSURE: Dermal, oral

Potential Health Hazards

Mist and solutions will cause mild to severe skin and/or eye irritation.

Inhalation: Will cause irritation to the respiratory tract.

Ingestion: Will irritate the gastrointestinal tract. Poison!

Eyes: Will cause irritation and possibly severe burns to the eyes. Corrosive to eyes. May cause blindness.

3. Composition- Ingredients

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INGREDIENT NAME

CAS NUMBER

Potassium Hydroxide

7320-34-5

The exact chemical concentration is considered a trade secret.

4. First Aid Measures

Skin: Immediately wash skin with soap and water.

Eyes: Flush eyes immediately with water for at least 15 minutes. Hold the lids back and allow water to thoroughly irrigate the eye. Seek prompt medical attention.

Inhalation: Remove to fresh air immediately.

Ingestion: Do NOT induce vomiting. If the person is conscious, give plenty of milk or water. Get immediate medical attention. Will cause severe caustic burns if ingested.

5. Fire Fighting Measures

Flammable Properties

Flash Point: Not Flammable but can react with certain metals.

Auto ignition temperature: Not Applicable

Extinguishing Media:

Material is not flammable. Use extinguishing media appropriate for surrounding fire.

Water may react and produce heat.

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Measures: Wear NIOSH approved breathing apparatus. Use water spray to keep containers cool.

6. Accidental Release Measures

In case of spill or other material release: Promptly dike spill. Wear appropriate personal protective equipment. Avoid unnecessary exposure. Do not allow to enter waterways or sewer system. Spills above the reportable quantity must be reported to the Coast Guard.

7. Handling and Storage

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Normal Handling: Avoid contact with eyes, skin and clothing. Do not eat or drink in the material handling and storage area. Practice good personal hygiene and housekeeping. Wear goggles and rubber gloves while handling material. A face shield is recommended.

Storage Recommendations: Store in a cool, well ventilated area away from acids.

8. Exposure Controls/ Personal Protective Equipment

Engineering Controls: Do not handle within an unventilated space.

Occupational Exposure Limits:

| | |
|-----------|---|
| ACGIH TLV | 2 mg/m ³ (STEL) |
| OSHA PEL | 2 mg/m ³ 8 hr. TWA, 2 mg/m ³ (ceiling) STEL |

Personal Protective Equipment

Skin Protection: To handle material, wear a rubber apron, boots and Nitrile rubber gloves.

Eye Protection: Wear chemical safety goggles. Do not wear contact lenses or impact resistant safety glasses. A face shield will provide additional protection.

Respiratory Protection: Use a NIOSH approved respirator if misting. Do not inhale vapor or mists.

An eye wash and safety shower is also required.

9. Physical and Chemical Properties

| | |
|-----------------|-----------------------------|
| Appearance: | Water white to clear |
| Physical State: | Liquid |
| Odor: | Odorless |
| pH: | 35-50% solution = 14.0-15.0 |
| Density: | 50% = 1.53 |
| Boiling Point: | 50% = 284F |
| VOC's | 0% |

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10. Stability and Reactivity

Normally Stable. Store mixture in a cool, dry place.

Incompatibilities: Strong Oxidizers, organic halogen compounds, Acetone, acids and metals such as Tin and Aluminum.

Hazardous Decomposition Products: Sodium Oxide. Decomposition caused by exposure to incompatible metals will release flammable and explosive hydrogen gas.

11. Toxicological Information

| | |
|-------------------------|------------------|
| Oral – rat LD 50 | 273 mg/kg |
| Dermal- rabbit | Severe |

Target organs are the eyes, skin and mucous membranes. This mixture is corrosive and may cause severe eye, skin, respiratory and upper gastrointestinal tract irritation. Ingestion has caused death in animals and humans.

This material is a hazardous chemical as defined under the Hazard Communication Standard (29 CFR 1910.1200).

12. Ecological Information

N/A

13. Disposal Considerations

RCRA: This material is not a listed hazardous waste. It does have the characteristic of D002 (corrosivity). Dispose of in accordance with federal, state and local regulations.

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14. Transport Information

US DOT:

Proper Shipping Name: Potassium Hydroxide solution, 8, UN1814, PGII

Emergency Response Guide: 154-2012 edition

15. Regulatory Information

Toxic Substances Control Act

TSCA: This material is listed on the TSCA Inventory of Chemical Substances.

SARA Title III/CERCLA

The Threshold Planning Quantities (TPQ's) for this material is 1,000 pounds if treated as a mixture.

SARA Section 302 Extremely Hazardous Substances: None

SARA 311/312 Acute-Yes Chronic –Yes Reactivity-Yes

SARA 313 Toxic Chemicals: None

State Right to Know Lists

No other substances are present in addition to the ingredients listed in section 2.

16. Other Information

| | | | | |
|---------------------|----------------------|--------------------|--------------------------|--|
| NFPA Rating: | <u>Health</u> | <u>Fire</u> | <u>Reactivity</u> | <u>Additional Information</u> |
| | 3 | 0 | 1 | J= safety goggles, gloves, apron and respirator |

Label information: Toxic! Danger! Corrosive!

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